



Application No. 09/530,772  
Attorney's Docket No. 050179-0080

**VERSION WITH MARKINGS TO SHOW CHANGES MADE**

**IN THE CLAIMS**

2. (Amended) [A] The vector according to claim 1, wherein the first nucleotide sequence encodes an antigen, enzyme or toxin.
3. (Amended) [A] The vector according to claim 2, wherein the first nucleotide sequence encodes a contraceptive antigen.
4. (Amended) [A] The vector according to claim 2, wherein the first nucleotide sequence encodes an esterase capable of hydroly[s]zing organophosphates.
5. (Amended) [A] The vector according to claim 2, wherein the first nucleotide sequence encodes an insecticidal toxin.
6. (Amended) [A] The vector according to any one of the preceding claims, wherein the second nucleotide sequence encodes a restriction enzyme or functional portion thereof that recogni[s]zes a cleavage site(s) of ten or more nucleotides.
7. (Amended) [A] The vector according to claim 6, wherein the second nucleotide sequence encodes a restriction enzyme selected from the group consisting of I-P<sub>po</sub>I, I-CeuI, P1-PspI, P1-T<sub>1</sub>I and P1-SceI.
8. (Amended) [A] The vector according to any one of the preceding claims, wherein the one or more cleavage sites(s) is/are located at a site(s) on the vector which avoids steric hindrance of binding by said restriction enzyme or functional portion thereof.
9. (Amended) [A] The vector according to any one of the preceding claims, further comprising a third nucleotide sequence encoding a ribozyme target[t]ed against mRNA produced from the said second nucleotide sequence encoding the restriction enzyme or functional portion thereof.

10. (Amended) [A] The vector according to any one of the preceding claims, wherein the second promoter is selected from the group consisting of the *placZ* promoter, the *placUV5* promoter and the T7 RNA polymerase promoter.

11. (Amended) [A] The vector according to claim 10, wherein the second promoter is the T7 RNA polymerase promoter.

12. (Amended) [A] The vector according to claim 11, further comprising an additional nucleotide sequence encoding T7 RNA polymerase operably linked to a third promoter sequence, said third promoter sequence being inducible.

14. (Amended) [A] The host cell according to claim 13, wherein said host cell is a bacterium or yeast.